

AMENDMENTS TO THE CLAIMS

This listing of claims replaces all prior versions and listings of claims in the application.

Listing of Claims

1. (Currently Amended) A method in a Radio Network Controller, RNC, in a mobile telecommunication system for initiating a Multimedia Broadcast Multimedia Service, MBMS, to a User Equipment, UE, in Packet Mobility Management - idle, PMM-idle, mode controlled by the RNC, wherein the RNC is connected to a Serving GPRS Support Node, SGSN, the method ~~is characterised in that it comprises~~ comprising the steps of:

- (a)—indicating to the SGSN that the UE ~~transits~~ is transiting to the a Circuit Switched connected mode,
- (b)—receiving from the SGSN an MBMS UE context, and
- (d)—adding the MBMS UE context in the RNC to make the RNC aware of ~~that it~~ that the RNC controls UEs connected to the MBMS.

2. (Currently Amended) A method in a Serving GPRS Support Node, SGSN, in a mobile telecommunication system for initiating a Multimedia Broadcast Multimedia Service, MBMS, to a User Equipment, UE, in Packet Mobility Management - idle, PMM-idle, mode controlled by a Radio Network Controller, RNC, wherein the RNC is connected the SGSN, the method ~~is characterised in that it comprises~~ comprising the steps of:

- (a)—receiving an indication that the UE ~~transits~~ is transiting to the a Circuit Switched connected mode,
- (b)—checking with the stored MBMS context information in the SGSN ~~if the to determine whether the~~ UE has activated the MBMS for one or more sessions, and

(e)—providing the RNC with the MBMS UE context in order to add MBMS UE context in the RNC to make the RNC aware of that it that the RNC controls UEs connected to the MBMS.

3. (Currently Amended) The method according to claim 1, wherein the indicating step is performed by indicating step includes transmitting a message from the RNC to the SGSN.

4. (Currently Amended) The method according to any of claims 1-2 claim 1, wherein the method comprises the further step of: further comprising maintaining the UE in PMM-idle state at reception of the indication at the SGSN.

5. (Currently Amended) The method according to any of claims 1-2 claim 1, wherein the method comprises the further step of: further comprising transferring the UE to PMM-connected state at reception of the indication at the SGSN.

6. (Currently Amended) The method according to claim 2, wherein the providing step is performed by providing step includes invoking [[a]] an lu linking procedure by sending [[a]] an Lu Linking Request message to the RNC from the SGSN.

7. (Currently Amended) The method [[of]] according to claim 1, wherein further comprising keeping the added MBMS UE context in the RNC is kept in the RNC as long as the UE is RRC connected.

8-9. (Canceled)

10. (Currently Amended) A method in a Radio Network Controller, RNC, in a mobile telecommunication system for initiating a Multimedia Broadcast Multimedia Service, MBMS, to a User Equipment, UE, in Packet Mobility Management - idle, PMM-idle, state and Circuit Switched connected mode, said UE being controlled by a Radio

Network Controller, RNC, wherein the RNC is connected to a Serving GPRS Support Node, SGSN, the method is characterised in that it comprises comprising the steps of:

[[[-]]] receiving a message from the UE in order to update the MBMS UE context in the RNC for one or more MBMS sessions for which the UE has joined,

if there is no MBMS service context information stored in the RNC for the concerned MBMSs, the method comprises the further steps of:

[[[-]]] fetching MBMS service context information from the SGSN,

[[[-]]] sending the identity of the RNC to the SGSN, and

[[[-]]] creating or updating the MBMS UE context and/or the MBMS Service context in the RNC based on the fetched information from the SGSN.

otherwise if there is MBMS service context information stored in the RNC for the concerned MBMSs, the method comprises the further step of:

[[[-]]] updating the MBMS service context in the RNC.

11. (Currently Amended) The method according to claim 9 claim 10, wherein the created or updated MBMS UE context in the RNC is kept in the RNC as long as the UE is RRC connected.

12. (Currently Amended) The method according to any of the claims 9-10, wherein the method comprises the further step of: claim 10, further comprising performing individual paging over an lur interface or by [[-]] performing lur linking in order to page a UE that has moved to a second NC.

13. (Currently Amended) The method according to any of claims 9-11, claim 10, wherein the step of receiving a message from the UE to the RNC sent in order to update the MBMS UE context in the RNC for one or more MBMS sessions for which the UE has joined is implemented in includes receiving a Radio Resource Control, RRC, Connection Request message [[as]] with a new information field/information element, or receiving [[as]] a new RRC PDU/message.

14. (Currently Amended) The method according to claim 9, wherein the method comprises the further step of— claim 10, further comprising maintaining the UE in PMM-idle state at reception of the message to the RNC.

15-16. (Canceled)

17. (Currently Amended) A Radio Network Controller, RNC, in a mobile telecommunication system for initiating a Multimedia Broadcast Multimedia Service, MBMS, to a User Equipment, UE, in Packet Mobility Management - idle, PMM-idle, mode controlled by the RNC, wherein the RNC is connected to a Serving GPRS Support Node, SGSN, the RNC is characterised in that it comprises comprising:

means for indicating to the SGSN that the UE transits is transitioning to the a Circuit Switched connected mode,

means for receiving from the SGSN an MBMS UE context, and

means for adding the MBMS UE context in the RNC to make the RNC aware of that it that the RNC controls UEs connected to the MBMS.

18. (Currently Amended) A Serving GPRS Support Node, SGSN, in a mobile telecommunication system for initiating a Multimedia Broadcast Multimedia Service, MBMS, to a User Equipment, UE, in Packet Mobility Management - idle, PMM-idle, mode controlled by a Radio Network Controller, RNC, wherein the RNC is connected to the SGSN, the SGSN is characterised in that it comprises comprising:

means for receiving an indication that the UE transits is transitioning to the a Circuit Switched connected mode,

means for checking with the stored MBMS context information in the SGSN if the to determine whether the UE has activated the MBMS for one or more sessions, and

means for providing the RNC with the MBMS UE context in order to add-MBMS UE context in the RNC to make the RNC aware of that it that the RNC controls UEs connected to the MBMS.

19. (Currently Amended) The RNC according to claim 17, wherein the means for indicating ~~comprises further~~ includes means for transmitting a message to the SGSN.

20. (Currently Amended) The RNC ~~according to claim 17 or the~~ SGSN according to claim 18, ~~wherein the RNC or the SGSN comprises further~~ comprising means for maintaining the UE in PMM-idle state at reception of the indication at the SGSN.

21. (Currently Amended) The RNC ~~according to claim 17 or the~~ SGSN according to claim 18, ~~wherein the RNC or the SGSN comprises further~~ comprising means for transferring the UE to PMM-connected state at reception of the indication at the SGSN.

22. (Currently Amended) The SGSN according to claim 18, wherein the means for providing ~~is performed by~~ includes means for invoking [[a]] an lu linking procedure by sending [[a]] an Lu Linking Request message to the RNC from the SGSN.

23. (Original) The RNC according to claim 17, wherein the added MBMS UE context in the RNC is kept in the RNC as long as the UE is RRC connected.

24. (Currently Amended) A Radio Network Controller, RNC, in a mobile telecommunication system for initiating a Multimedia Broadcast Multimedia Service, MBMS, to a User Equipment, UE, in Packet Mobility Management - idle, PMM-idle, state and Circuit Switched connected mode, said UE being controlled by the RNC, wherein the RNC is connected to a Serving GPRS Support Node, SGSN, the RNC is characterised in that it comprises comprising:

means for receiving a message from the UE in order to update the MBMS UE context in the RNC for one or more MBMS sessions for which the UE has joined.

means for checking if there already are MBMS service contexts established in the RNC for the concerned MBMSs,

if there is no MBMS service context information stored in the RNC for the concerned MBMSs, the RNC further comprises:

the further means for fetching MBMS service context information from the SGSN,

means for sending the identity of the RNC to the SGSN, and

means for creating or updating the MBMS UE context and/or the MBMS Service context in the RNC based on the fetched information from the SGSN,

otherwise if there is MBMS service context information stored in the RNC for the concerned MBMSs, the RNC comprises the means for updating the MBMS service context in the RNC.

25. (Currently Amended) The RNC according to claim 24, wherein the RNC comprises means for keeping the created or updated the MBMS UE context in the RNC as long as the UE is RRC connected.

26. (Currently Amended) The RNC according to ~~any of the claims 24-25, wherein the RNC comprises the further claim 24, further comprising~~ means for performing individual paging over an Iur interface or means for performing Iur linking in order to page a UE that has moved to a second RNC.

27. (Currently Amended) The RNC according to ~~any of claims 24-26 claim 24, wherein the message received from the UE to the RNC sent in order to update the MBMS UE context in the RNC for one or more MBMS sessions for which the UE has joined is implemented is received~~ in a Radio Resource Control, RRC, Connection Request message as a new information field/information element, or is received as a new RRC PDU/message.

28. (Currently Amended) The RNC according to claim 24, wherein the RNC further comprises the means for maintaining the UE in PMM-idle state at reception of the message to the RNC.